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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/764,544	01/18/2001	William J. Grasty JR.	9204-5	6483
7590	05/23/2005		EXAMINER	
Wagner Murabito & Hao LLP Two North Market Street Third Floor San Jose, CA 95113			BELIVEAU, SCOTT E	
			ART UNIT	PAPER NUMBER
			2614	
DATE MAILED: 05/23/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/764,544	GRASTY, WILLIAM J.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Scott Beliveau	2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 10 March 2005.

2a) This action is FINAL.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-27 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-27 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 10 March 2005 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

## **DETAILED ACTION**

### ***Request for Information***

1. Applicant's statement regarding not having any further literature, published applications or patents used to draft the instant application or used in the invention process in connection with applicant's statement that it is known in the art for modular video home distribution systems to comprise dual-stage amplifier circuits which allow up to 16-way splitting (IA: Page 2, Line 25-27) is acknowledged.

### ***Drawings***

2. The drawings were received on 10 March 2005. These drawings are approved.

### ***Response to Arguments***

3. Applicant's arguments filed 10 March 2005 have been fully considered but they are not persuasive.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Furthermore, the examiner recognizes that a prior art reference that "teaches away" from the claimed invention is a significant factor to be considered in determining obviousness; however, "the nature of the teaching is highly relevant and must be weighed in substance. . . ." *In re Gurley*, 27 F.3d 551, 554, 31 USPQ2d 1130, 1132 (Fed. Cir. 1994)

In the instant case, the Dinwiddie reference discloses the particular usage of a single stage amplifier in a home distribution network. The reference is silent as to any teachings that would dissuade one having ordinary skill in the art from modifying the system to utilize a dual-stage amplifier. Applicant's admitted prior art provides evidence that it is known in the art to utilize dual stage amplifiers in connection with a home distribution system. The Goyette et al. reference serves to provide evidence as to the knowledge of one having ordinary skill in the art regarding both the design and motivation to utilize dual-stage amplifiers. Accordingly, taken in combination with the components of the product brochures, it is the examiner's position that a proper prima fascia case of obviousness has been presented.

With respect to applicant's arguments that the Goyette reference teaches away from the claimed invention through the usage of an equalizer coupling between the two amplifier stages. The examiner respectfully disagrees. The teachings of the Goyette reference relied upon in the grounds of rejection were limited to an evidence of facts as to common knowledge motivation and component selection of dual-stage amplifier designs. Accordingly, given that the reference discloses the first stage amplifier is cascaded in a chain with the second, it is unclear as to how applicant is concluding that the two are not electrically coupled such that the output of the first is fed to the input of the second amplifier. However, assuming arguendo that the teachings of Goyette as opposed to merely the state of the prior art as summarized by Goyette are relied upon in the rejection of record, the particular usage of an equalizer coupling stages still meets the claimed limitation, given that the equalizer would serve to "electrically couple" the output of the first stage with the input

of the second amplification stage. Applicant's appear to be arguing that the claims should be interpreted such that the stages are directly coupled to one another. However, it is the examiner's interpretation that the claims are not so limiting and the instant application does not provide support for a direct coupling as evidenced by the components (ex. "245" (Figure 3A) and the unlabeled capacitor (Figure 3B)) located between amplifier stages.

Applicant's arguments pursuant to the Flickinger reference appear to be premised based upon the earlier arguments regarding the earlier combination of references and are not considered persuasive for the reasoning previously set forth.

### *Claim Objections*

4. Claim 16 is objected to because the recitation of "the first combiner circuit" lacks proper antecedent basis. Appropriate correction is required. For the purpose of art evaluation, the examiner shall presume that "a combiner" recited claim 1 is the "first combiner circuit" of claim 16. While the applicant's response notes that the claim has been amended to overcome the objection, the listing of claims does not reflect that the changes have been made.

### *Claim Rejections – 35 USC § 103*

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-15 and 19-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dinwiddie et al. (US Pat No. 6,481,013), in view of applicant's admitted prior art, in view of Goyette (US Pat No. 6,433,642), and in further view of the RF2317 and RF2320 product brochures (of record).

In consideration of claim 1, Figures 1 A/B of the Dinwiddie et al. reference illustrate a bi-directional network for facilitating the routing and distribution of diverse signals throughout a home (Col 4, Line 15 – Col 5, Line 51). The system comprises a “video amplifier circuit” [22] comprising an RF2317 amplification stage [72] that is coupled to a logical “splitter circuit” resulting in a “plurality of outputs” [24-28]. The reference, however, does not disclose nor preclude the particular usage of dual stage amplification. Applicant's admitted prior art, discloses that it is known in the art to utilize dual-stage amplifier circuits in connection with home distribution systems (IA: Page 2, Lines 25-28). Furthermore, the Goyette et al. reference discloses that it is known in the art in conjunction with systems wherein the maximum frequency is at least double that of the minimum frequency so as to utilize “electrically coupled” cascaded amplifiers in order to achieve the optimal noise and linearity required by system (Goyette et al.: Col 1, Lines 25-33). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to modify the Dinwiddie et al. amplification stage [72] so as to utilize cascading dual stages as is known in the art in home distribution systems for the purpose of implementing an amplifier design that is operable to achieve optimal noise and linearity over a large spectrum using low cost components (Goyette et al.: Col 1, Lines 34-47).

As to the selection of components, the Goyette et al. reference teaches that it is preferable to select an amplifier with a low noise characteristic and moderate linearity as the first stage and an amplifier with a better noise characteristic and improved linearity for the second stage wherein the components are implemented via low cost components (Goyette et al.: Col 1, Lines 25-33). The RF2320 and RF2317 amplifier circuits (of record) are disclosed as general purpose low-cost amplifiers that are easily cascadable and “ideal for cable TV applications” (Product Description). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the RF2320 and RF2317 amplifiers for the purpose of utilizing low-cost cascadable amplification components as suggested by Goyettte et al.

As to the particular order of the amplifiers, as previously evidenced by Goyette et al. it is commonly known to utilize the amplifier with the lower noise as the first stage and the amplifier with the better linearity as the second stage (Goyette et al.: Col 1, Lines 25-46). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to utilize the RF2320 amplifier as the “first stage” and the RF2317 amplifier as the “second stage” in order to arrange the aforementioned components as suggested by Goyette et al.

Claim 2 is rejected wherein the “output power of the second stage amplifier is greater than 23 decibels milivolts (dBmV) and wherein the distortion of the second stage amplifier is no greater than about CTB 56 dBc, CSO 58 dBC” as evidenced by the RF2317 Product Brochure.

Claim 3 is rejected wherein the “signal gain of the first sage amplifier is greater than 15 decibels (dB) and the noise figure of the first stage amplifier is less than 3.5 dB” as evidenced by the RF2320 Product Brochure.

In consideration of claim 4, as aforementioned, the Goyette et al. reference discloses that the selection of components in connection of a first and second stage amplifier should be such that the first stage exhibits a low noise figure. Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to utilize components wherein the “noise figure of the first stage amplifier is less than 1.5 dB” for the purpose of minimizing noise introduced into the system during amplification thereby reducing the likelihood of distribution errors and maintaining the distributed video signal quality.

In consideration of claim 5, as aforementioned, the “first stage amplifier is an RF2320 amplifier and the second stage amplifier is an RF2317 amplifier”.

In consideration of claim 6, applicant’s admitted prior art discloses that it is known in the art for home distribution systems so as to utilize “splitter circuits” of “more than 16 outputs” (IA: Page 2, Line 25 – Page 3, Line 2). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to employ “splitter circuits including more than 16 outputs” for the purpose of advantageously providing support for a larger number of ports in a home environment.

In consideration of claim 7, the Dinwiddie et al. reference discloses the usage of a “matching circuit”[80] so as to ensure that the impedance between the amplification circuitry and the distribution system are balanced. Accordingly, it would have been obvious to one

having ordinary skill in the art at the time the invention was made so as to utilize a “first matching circuit coupling the video input to the input of the first stage amplifier” and a “second matching circuit coupling the output of the first stage amplifier to the input of the second stage amplifier” for the purpose of minimizing signal loss and reflections associated with amplifier stage inputs. The Goyette reference further discloses the usage of such between stages so as to improve the input and output voltage standing waver ratio (Col 1, Lines 25-33). With respect to the “first biasing circuitry electrically coupled to the output of the first state amplifier” and the “second biasing circuitry electrically coupled to the output of the second stage amplifier”, the existence of such in conjunction with amplifiers is well known to those of ordinary skill in the art and is further disclosed in connection with the RF OUT of both RF2317 and RF2320 amplifier stages. The RF2317 Brochure further discloses the particular usage of a “direct current (DC) blocking circuit” in connection with the RF OUT pin.

In consideration of claim 8, as illustrated in Figure 2, the distribution module of Dinwiddie et al. comprises a “diplexer circuit” [86/88] that is “electrically coupled to the video input/output signal” [42/43] and a “high frequency output electrically coupled to the input of the first stage amplifier” [86] and a “low frequency connector” [88], a “return channel amplifier circuit” [72] (Col 8, Lines 29-33), and an implicit “combiner circuit” for “coupling the return channel amplifier and the second stage amplifier to the input of the splitter circuit” so as to provide a means for the upstream signals to enter the bi-directional amplifier and return via the bi-directional communication network to the cable head-end.

Claim 9 is rejected wherein the “bi-directional communications comprises digital over cable systems interface specification (DOCSIS) protocol communications” (Dinwiddie et al.: Col 5, Lines 5-31).

In consideration of claim 10, the reference discloses the usage of a “second return channel matching circuit coupling the return channel amplifier to the diplexer circuit” [80] but it does not particularly illustrate the usage of a “first return channel matching circuit” associated with the return path leading into the “combiner circuit”. As aforementioned, the use of matching circuits with amplifiers is commonly known in the art. Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ a “first return channel matching circuit coupling the return channel amplifier to the combiner circuit” for the purpose of minimizing signal loss and reflections associated with amplifier stage inputs.

Claim 11 is rejected as previously set forth in the rejection of claim 1. As illustrated in Figure 2, the Dinwiddie et al. reference discloses “video distribution module” [22] for “routing a DOCSIS compatible connection with a cable network to a plurality of connection points” [34-37] (Col 5, Lines 5-31). The module [22] comprises a “cable input configured to be connected to the cable network” [42], a “diplexer circuit” [86/88] that is “electrically coupled to the cable input that splits a signal on the cable input into a forward and a return channel”, an amplifier circuit [72], an implicit “first combiner circuit” for “coupling the return channel amplifier and the second stage amplifier to the plurality of connection points”, and an implicit “splitter circuit coupled between the . . . amplifier circuit and the plurality of connection points” so to distribute the single path input signal via a plurality of output paths.

As aforementioned, the reference does not particularly disclose nor preclude the usage of a “two stage amplifier circuit”, as is known in the art per applicant’s admission (IA: Page 2, Lines 25-28). Furthermore, the usage of a “two stage amplifier circuit” utilizing a “first stage amplifier with a high signal gain and a low noise figure and a second stage amplifier having a high output power and a low distortion” wherein the “output of said first stage amplifier is electrically coupled to an input of said second stage amplifier” by virtue of the two amplifier stages being cascaded in a chain is commonly known in the art as evidenced by the Goyette et al. reference (Goyette et al.: Col 1, Lines 25-33). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to modify the Dinwiddie et al. amplification stage [72] so as to utilize cascading dual stages as is known in the art in home distribution systems for the purpose of implementing an amplifier design that is operable to achieve optimal noise and linearity over a large spectrum using low cost components (Goyette et al.: Col 1, Lines 34-47) such as the RF2320 and RF2317 amplifier circuits (of record)

Claim 12 is rejected wherein the “output power of the second stage amplifier is greater than 23 decibels milivolts (dBmV) and wherein the distortion of the second stage amplifier is no greater than about CTB 56 dBc, CSO 58 dBC” as evidenced by the RF2317 Product Brochure.

Claim 13 is rejected wherein the “signal gain of the first sage amplifier is greater than 15 decibels (dB) and the noise figure of the first stage amplifier is less than 3.5 dB” as evidenced by the RF2320 Product Brochure.

Claim 14 is rejected wherein, as aforementioned, the Goyette et al. reference discloses that the selection of components in connection of a first and second stage amplifier should be such that the first stage exhibits a low noise figure. Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to utilize components wherein the “noise figure of the first stage amplifier is less than 1.5 dB” for the purpose of minimizing noise introduced into the system during amplification thereby reducing the likelihood of distribution errors and maintaining the distributed video signal quality.

Claim 15 is rejected, as aforementioned, wherein the “first stage amplifier is an RF2320 amplifier and the second stage amplifier is an RF2317 amplifier”.

In consideration of claims 19 and 20, applicant’s admitted prior art discloses that it is known in the art for home distribution systems so as to utilize “splitter circuits” of “more than 16 outputs” or “at least 32 connection points” (IA: Page 2, Line 25 – Page 3, Line 2). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to employ “splitter circuits including more than 16 outputs” or “at least 32 connection points” for the purpose of advantageously providing support for a larger number of ports in a home environment.

Claim 21 is rejected as previously set forth in the rejection of claim 1. As illustrated in Figure 2, the Dinwiddie et al. reference discloses “video distribution module” [22] for “routing a video connection to a plurality of connection points” [34-37] including a “video input configured to receive a video signal from at least one of an antenna or a cable network” [42] (Col 4, Lines 48-54), an amplifier [72], and an implicit “splitter circuit coupled between

the . . . amplifier circuit and the plurality of connection points” so to distribute the single path input signal via a plurality of output paths. As aforementioned, the reference does not particularly disclose nor preclude the usage of a “two stage amplifier circuit”, as is known in the art per applicant’s admission (IA: Page 2, Lines 25-28). Furthermore, the usage of a “two stage amplifier circuit utilizing a “first stage amplifier with a high signal gain and a low noise figure and a second stage amplifier having a high output power and a low distortion” wherein the “output of said first stage amplifier is electrically coupled to an input of said second stage amplifier” by virtue of the two amplifier stages being cascaded in a chain is commonly known in the art as evidenced by the Goyette et al. reference is commonly known in the art as evidenced by the Goyette et al. reference (Goyette et al.: Col 1, Lines 25-33). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to modify the Dinwiddie et al. amplification stage [72] so as to utilize cascading dual stages as is known in the art in home distribution systems for the purpose of implementing an amplifier design that is operable to achieve optimal noise and linearity over a large spectrum using low cost components (Goyette et al.: Col 1, Lines 34-47) such as the RF2320 and RF2317 amplifier circuits (of record)

Claim 22 is rejected wherein the system comprises “at least one internal video signal input” associated with the various interconnection points between components within the distribution module, an “internal signal amplifier circuit” [72] that is “electrically coupled to the at least one internal video signal input” and an implicit “combiner circuit coupled between the two stage amplifier circuit and the splitter circuit and electrically coupled between the internal signal amplifier circuit and the splitter circuit” so as to provide a means

for the upstream signals to enter the bi-directional amplifier and return via the bi-directional communication network to the cable head-end.

Claim 23 is rejected wherein the “output power of the second stage amplifier is greater than 23 decibels milivolts (dBmV) and wherein the distortion of the second stage amplifier is no greater than about CTB 56 dBc, CSO 58 dBC” as evidenced by the RF2317 Product Brochure.

Claim 24 is rejected wherein the “signal gain of the first sage amplifier is greater than 15 decibels (dB) and the noise figure of the first stage amplifier is less than 3.5 dB” as evidenced by the RF2320 Product Brochure.

Claim 25 is rejected wherein, as aforementioned, the Goyette et al. reference discloses that the selection of components in connection of a first and second stage amplifier should be such that the first stage exhibits a low noise figure. Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to utilize components wherein the “noise figure of the first stage amplifier is less than 1.5 dB” for the purpose of minimizing noise introduced into the system during amplification thereby reducing the likelihood of distribution errors and maintaining the distributed video signal quality.

In consideration of claims 26 and 27, applicant’s admitted prior art discloses that it is known in the art for home distribution systems so as to utilize “splitter circuits” of “more than 16 outputs” or “at least 32 connection points” (IA: Page 2, Line 25 – Page 3, Line 2). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to employ “splitter circuits including more than 16 outputs” or

“at least 32 connection points” for the purpose of advantageously providing support for a larger number of ports in a home environment.

7. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dinwiddie et al. (US Pat No. 6,481,013), in view of applicant’s admitted prior art, in view of Goyette (US Pat No. 6,433,642), in view of the RF2317 and RF2320 product brochures (of record), and in further view of Flickinger et al. (US Pat No. 5,901,340).

In consideration of claim 16, as aforementioned, the Dinwiddie et al. reference discloses “at least one internal video signal input” associated with the various interconnection points between components within the distribution unit [22], an “internal signal amplifier circuit” [72] that is “electrically coupled to the at least one internal video signal input” and an implicit “first combiner circuit” so as to provide a means for the upstream signals to enter the bi-directional amplifier and return via the bi-directional communication network to the cable head-end. The reference, however, does not particularly disclose nor preclude cascading distribution modules [22] as is known in the art. In particular, the Flickinger et al. reference provides evidence that it is known in the art to cascade distribution modules in a wiring closet within a home environment (Col 1, Lines 29-38; Col 2, Lines 4-14). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made so as to cascade the distribution units [22] within a distribution module such as a wiring closet for the purpose of providing a means by which a greater number of outlets may be serviced than by a single distribution module comprising a fixed number of ports.

Given such a modification, the system would comprises a “second combiner circuit” associated with the second distribution unit which would be “coupled between the first

combiner circuit” associated with the first distribution unit and the “splitter circuit” associated with the second distribution unit and “coupled between the internal signal amplifier” associated with the first distribution unit and the “splitter circuit” of the second distribution unit in the chain.

Claim 17 is rejected wherein the “cable input receives a cable television (CATV) signal in a first frequency band and wherein each of the at least one internal video signal inputs has an associated frequency band different from the first frequency band so that a receiver connected to one of the plurality of connection points may select one of the CATV signals or the lat least one internal video signal as a received signal by tuning to an associated frequency band for one of the signals” (Dinwiddie et al.: Col 5, Line 5 – Col 6, Line 4; Col 8, Lines 34-67; Col 17, Lines 7-27).

Claim 18 is rejected in view of the aforementioned the “at least one internal video signal input comprises a plurality of internal video signal inputs” associated with the various downstream broadcast channels. As to the particular usage of a “third combiner circuit”, the Dinwiddie et al. reference suggests that it is operable to receive broadcast signals from multiple sources simultaneously (Col 4, Lines 48-54). Accordingly, the reference implicitly comprises a “third combiner circuit coupling the plurality of internal video signal inputs to the internal signal amplifier circuit” so as combine/couple the video signals derived from the plurality of sources for common distribution over the single conductor home network.

### *Conclusion*

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure as follows. Applicant is reminded that in amending in response to a rejection of claims, the patentable novelty must be clearly shown in view of the state of the art disclosed by the references cited and the objections made.

- The Dan et al. (US Pat No. 6,785,907) reference discloses a feed signal equalizer for a feed amplifier for two-way coaxial cable systems.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Beliveau whose telephone number is 571-272-7343. The examiner can normally be reached on Monday-Friday from 8:30 a.m. - 6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2614

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SEB

October 21, 2004



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SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600